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Job No.: CCQCE/BBMP/DM/16/2020-2021

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

07.09.2020

Client : Executive Engineer, RR Nagar Division, BBMP,Bangalore.

Agency : Sri.Damodar Manjunath, Contractor, Bangalore.

Name of the work :Comprehensive Development of roads and drains in ward no. 16, Rajarajeshwarinagara Assembly Constituency under Package-2019-20 RRN-DIV-(01), BBMP, Bangalore

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	10.08.2020	07.09.2020	8.063	512.2	22.76
2	10.08.2020	07.09.2020	8.147	523.9	23.28
3	10.08.2020	07.09.2020	8.052	534.1	23.74

Note:

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Asst. Executive Engineer
Yeshwanthpura Sub-Division
Bruhat Bangalore Mahanagara Palike

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Office & Laboratory : # 133, Bhuvaneshwarinagar, Dodda Basti Main Road, Bangalore - 560 056.
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CQCE/BBMP/DM/16/2020-2021

KERB STONE (CORE) TEST REPORT

Date: 26.08.2020

Client	:	: Executive Engineer, RR Nagar Division,BBMP, Bangalore.
Agency	:	: Sri.Damodar Manjunath, Contractor, Bangalore.
Name of Work	:	:Comprehensive Development of roads and drains in ward no. 16, Rajarajeshwarinagara Assembly Constituency under Package-2019-20 RRN-DIV-(01), BBMP, Bangalore
No.of Sample Tested	:	03
Date of Testing	:	26.08.2020
Techinical Reference	:	IS:516-1959 (Reaffirmed 1999), SP-24:1983.
Grade of Concrete	:	M_{15}

Sl. No.	Dia of Core D (mm)	Height of Core H (mm)	Core Wt (Kg)	Density of Core (kg / m^3)	H / D	Correction factor (Based on H/D)	Failure Load (kN)	Core Strength (N/mm^2)	Correction Factor for the Dia. (Strength of the Core x 1.08)	Corrected Cylinder Compressive Strength (N/mm^2)	Equivalent Cube Compressive Strength (N/mm^2)
1	50.00	75.00	0.357	2424.25	1.50	0.946	27.60	14.06	15.18	14.36	17.95
2	50.00	73.00	0.348	2427.88	1.46	0.942	28.90	14.72	15.90	14.97	18.71
3	50.00	80.00	0.378	2406.42	1.60	0.957	29.50	15.02	16.23	15.53	19.41

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No.: CQCE/BBMP/DM/16/2020-2021

Date: 24.08.2020

PRECAST SLAB 100mm Thick(CORE) TEST REPORT

Client	:	: Executive Engineer, RR Nagar Division, BBMP,Bangalore.
Contractor	:	: Sri.Damodar Manjunath, Contractor, Bangalore.
Name of Work	:	:Comprehensive Development of roads and drains in ward no. 16, Rajarajeshwarinagara Assembly Constituency under Package-2019-20 RRN-DIV-(01)BBMP, Bangalore
No.of Sample Tested	:	03
Date of Testing	:	24.08.2020
Techinical Reference	:	IS:516-1959 (Reaffirmed 1999), SP-24:1983.
Grade of Concrete	:	M_{20}

Sl. No.	Dia of Core D (mm)	Height of Core H (mm)	Core Wt (Kg)	Density of Core (kg / m^3)	H / D	Correction factor (Based on H/D)	Failure Load (kN)	Core Strength (N/mm^2)	Correction Factor for the Dia. (Strength of the Core x 1.08)	Corrected Cylinder Compressive Strength (N/mm^2)	Equivalent Cube Compressive Strength (N/mm^2)
1	50.00	78.00	0.367	2396.30	1.56	0.952	36.50	18.59	20.08	19.12	23.90
2	50.00	86.00	0.397	2351.05	1.72	0.970	34.10	17.37	18.76	18.19	22.74
3	50.00	88.00	0.413	2390.22	1.76	0.974	35.70	18.18	19.64	19.13	23.91

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No.: CQCE/BBMP/DM/16/2020-2021

Date: 24.08.2020

PRECAST SLAB 250mm Thick(CORE) TEST REPORT

Client	:	: Executive Engineer, RR Nagar Division, BBMP,Bangalore.
Contractor	:	: Sri.Damodar Manjunath, Contractor, Bangalore.
Name of Work	:	:Comprehensive Development of roads and drains in ward no. 16, Rajarajeshwarinagara Assembly Constituency under Package-2019-20 RRN-DIV-(01)BBMP, Bangalore
No.of Sample Tested	:	03
Date of Testing	:	24.08.2020
Techinical Reference	:	IS:516-1959 (Reaffirmed 1999), SP-24:1983.
Grade of Concrete	:	M_{20}

Sl. No.	Dia of Core D (mm)	Height of Core H (mm)	Core Wt (Kg)	Density of Core (kg / m^3)	H / D	Correction factor (Based on H/D)	Failure Load (kN)	Core Strength (N/mm^2)	Correction Factor for the Dia. (Strength of the Core x 1.08)	Corrected Cylinder Compressive Strength (N/mm^2)	Equivalent Cube Compressive Strength (N/mm^2)
1	90.00	135.00	1.996	2324.08	1.50	0.946	105.30	16.55	17.88	16.91	21.14
2	90.00	140.00	2.123	2383.68	1.56	0.952	117.10	18.41	19.88	18.93	23.66
3	90.00	130.00	1.956	2365.11	1.44	0.940	109.60	17.23	18.61	17.49	21.86

Note:

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CQCE/BBMP/DM/16/2020-2021

Date :14.09.2020

GRADATION FOR GSB (Grading V)

Client : : Executive Engineer, RR Nagar Division,BBMP, Bangalore.
Agency: : Sri.Damodar Manjunath, Contractor, Bangalore.
Name of work: :Comprehensive Development of roads and drains in ward no. 16, Rajarajeshwarinagara Assembly Constituency under Package-2019-20 RRN-DIV-(01), BBMP, Bangalore
BIS Code: IS 2386 Part (1):1963
IS 2720 part (5):1985
Date of Testing :12.09.2020 to 14.09.2020

TABLE – 1

Oven Dry Wt (gm) : 13000

Is Sieve Size in mm	Weight Retained (gm)	Cumulative Weight Retained (gm)	Cumulative % of Retained	Cumulative % of Passing	Requirements as per MORTH 5th edition table 400.1
75	0	0	0.00	100	100
53	1765	1765	13.58	86.42	80-100
26.5	2028	3793	29.18	70.82	55-90
9.5	2165	5958	45.83	54.17	35-65
4.75	1758	7716	59.35	40.65	25-50
2.36	2896	10612	81.63	18.37	10-20
0.85	1736	12348	94.98	5.02	2-10
0.425	254	12602	96.94	3.06	0-5

Table 2

Sl. No.	Particulars	Test Results	Requirements as per MORTH 5th edition table 400.2
1	Liquid Limit, %	18.60	25.0% Maximum.
2	Plasticity Index, %	Non Plastic	6.0% Maximum.

Remarks: Satisfies MORTH Specifications as per Table 400-1, Grading V

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GRADATION FOR GSB (Grading V)

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75	0	0	0.00	100	100
53	1582	1582	12.17	87.83	80-100
26.5	2096	3678	28.29	71.71	55-90
9.5	2145	5823	44.79	55.21	35-65
4.75	1723	7546	58.05	41.95	25-50
2.36	3056	10602	81.55	18.45	10-20
0.85	1698	12300	94.62	5.38	2-10
0.425	325	12625	97.12	2.88	0-5

Table 2

Sl. No.	Particulars	Test Results	Requirements as per MORTH 5th edition table 400.2
1	Liquid Limit, %	19.20	25.0% Maximum.
2	Plasticity Index, %	Non Plastic	6.0% Maximum.

Asst. Executive Engineer
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Remarks: Satisfies MORTH Specifications as per Table 400-1, Grading V

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TABLE – 1

Oven Dry Wt (gm) : 13000

Is Sieve Size in mm	Weight Retained (gm)	Cumulative Weight Retained (gm)	Cumulative % of Retained	Cumulative % of Passing	Requirements as per MORTH 5th edition table 400.1
75	0	0	0.00	100	100
53	1745	1745	13.42	86.58	80-100
26.5	2066	3811	29.32	70.68	55-90
9.5	2215	6026	46.35	53.65	35-65
4.75	1845	7871	60.55	39.45	25-50
2.36	3085	10956	84.28	15.72	10-20
0.85	1021	11977	92.13	7.87	2-10
0.425	526	12503	96.18	3.82	0-5

Table 2

Sl. No.	Particulars	Test Results	Requirements as per MORTH 5th edition table 400.2
1	Liquid Limit, %	19.80	25.0% Maximum.
2	Plasticity Index, %	Non Plastic	6.0% Maximum.

Remarks: Satisfies MORTH Specifications as per Table 400-1, Grading V

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Date :14.09.2020

GRADATION FOR GSB (Grading V)

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BIS Code: IS 2386 Part (1):1963
IS 2720 part (5):1985
Date of Testing :12.09.2020 to 14.09.2020

Oven Dry Wt (gm) : 13000

TABLE – 1

Is Sieve Size in mm	Weight Retained (gm)	Cumulative Weight Retained (gm)	Cumulative % of Retained	Cumulative % of Passing	Requirements as per MORTH 5th edition table 400.1
75	0	0	0.00	100	100
53	1682	1682	12.94	87.06	80-100
26.5	2015	3697	28.44	71.56	55-90
9.5	2214	5911	45.47	54.53	35-65
4.75	1785	7696	59.20	40.80	25-50
2.36	3025	10721	82.47	17.53	10-20
0.85	1165	11886	91.43	8.57	2-10
0.425	506	12392	95.32	4.68	0-5

Table 2

Sl. No.	Particulars	Test Results	Requirements as per MORTH 5th edition table 400.2
1	Liquid Limit, %	18.60	25.0% Maximum.
2	Plasticity Index, %	Non Plastic	6.0% Maximum.

Remarks: Satisfies MORTH Specifications clause 400.1, Grading V

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BIS Code: IS 2386 Part (1):1963
IS 2720 part (5):1985
Date of Testing :12.09.2020 to 14.09.2020

TABLE – 1

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Is Sieve Size in mm	Weight Retained (gm)	Cumulative Weight Retained (gm)	Cumulative % of Retained	Cumulative % of Passing	Requirements as per MORTH 5th edition table 400.1
75	0	0	0.00	100	100
53	1706	1706	13.12	86.88	80-100
26.5	2036	3742	28.78	71.22	55-90
9.5	2248	5990	46.08	53.92	35-65
4.75	1845	7835	60.27	39.73	25-50
2.36	3005	10840	83.38	16.62	10-20
0.85	1089	11929	91.76	8.24	2-10
0.425	512	12441	95.70	4.30	0-5

Table 2

Sl. No.	Particulars	Test Results	Requirements as per MORTH 5th edition table 400.2
1	Liquid Limit, %	19.60	25.0% Maximum.
2	Plasticity Index, %	Non Plastic	6.0% Maximum.

Remarks: Satisfies MORTH Specifications as per Table 400-1, Grading V

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BIS Code: IS 2386 Part (1):1963
IS 2720 part (5):1985
Date of Testing :12.09.2020 to 14.09.2020

Oven Dry Wt (gm) : 13000

TABLE – 1

Is Sieve Size in mm	Weight Retained (gm)	Cumulative Weight Retained (gm)	Cumulative % of Retained	Cumulative % of Passing	Requirements as per MORTH 5th edition table 400.1
75	0	0	0.00	100	100
53	1605	1605	12.35	87.65	80-100
26.5	2015	3620	27.85	72.15	55-90
9.5	2285	5905	45.42	54.58	35-65
4.75	1748	7653	58.87	41.13	25-50
2.36	3056	10709	82.38	17.62	10-20
0.85	1213	11922	91.71	8.29	2-10
0.425	536	12458	95.83	4.17	0-5

Table 2

Sl. No.	Particulars	Test Results	Requirements as per MORTH 5th edition table 400.2
1	Liquid Limit, %	19.60	25.0% Maximum.
2	Plasticity Index, %	Non Plastic	6.0% Maximum.

Remarks: Satisfies MORTH Specifications as per Table 400-1, Grading V

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